HP Thin Client 2012

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New

New

New

	Smart Zero	Flexible	Flexible				Flexible			
	HP t5335z	**HP t5550 with WE CE 6.0**	**HP t510 with HP Thin Pro**	**HP t510 with HP Smart Zero Technology**	**HP t510 with WES 2009**	**HP t510 WES 7**	**HP t610 HP Smart Zero Technology**	**HP t610/610 PLUS ThinPro**	**HP t610/610 PLUS WES 2009**	**HP t610/610 PLUS WES 7 (WS7E, WS7P)**
Software										
Operating system	HP Smart Zero Core	Microsoft® Windows® CE 6.0 R3	HP ThinPro	HP Smart Zero Core	Windows Embedded Standard 2009	Windows Embedded Standard 7	HP Smart Zero Core	HP ThinPro	Windows Embedded Standard 2009	Windows Embedded Standard 7 (WS7E, WS7P)
Web browser	Mozilla® Firefox® 8.0	IE 6.0 for Windows CE1	Internet Explorer® 8 (IE8), Mozilla Firefox 8.0	Internet Explorer 8 (IE8), Mozilla Firefox 8.0	Internet Explorer 8 (IE8)	Internet Explorer 8 (IE8)	Mozilla Firefox 8.0	Mozilla Firefox 8.0	Internet Explorer 8 (IE8)	Internet Explorer 8 (IE8)
HP TeemTalk Terminal emulation	No	Yes	Yes	No	7.3	7.3	No	7.3.2	7.3	7.3
HP Easy Tools	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Management software included	HP Smart Zero Client Service, HP Device Manager agent	HP Device Manager agent, Altiris agent, HP Client Automation	HP ThinState, HP Device Manager agent	HP Smart Zero Client Service, HP Device Manager agent	HP ThinState, HP Device Manager agent	HP ThinState, HP Device Manager agent, Microsoft® SCCM/WEDM agent	HP Smart Zero Client Service, HP Device Manageragent	HP ThinState, HP Device Manager agent	HP ThinState, HP Device Manager agent	HP ThinState, HP Device Manager agent, Microsoft SCCM/WEDM agent
ISV support										
Citrix										
Citrix Desktop Delivery Controller (DDC) via Citrix PNagent or Web browser	Citrix® XenDesktop®	Yes; XenDesktop 2.x, 3, 4	Citrix XenDesktop	No	Via web browser	Via web browser	Via web browser	Citrix XenDesktop	Via web browser	Via web browser
ICA client	ICA 12, 12.0.1	10.x, 11.02 incl; 12 add-on	Citrix ICA 12.0.1	Citrix ICA 12.0.1	Citrix ICA 13	Citrix ICA 13	Citrix ICA 12	Citrix ICA 12	Citrix ICA 13	Citrix ICA 13
Citrix HDX Certification	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HDX relative performance	Good	Good	Better	Better	Better	Better	Better	Best	Best	Best
Microsoft										
RDP Client	rDesktop 1.6	MS RDP 6.0	rDesktop 1.6	rDesktop 1.6	RDP 7.0	RDP 7.1	rDesktop 1.6	rDesktop 1.6	7.0	7.1
Microsoft RFX Certified	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes
Microsoft RDP Relative Performance	Good	Good	Better	Better	Better	Better	Best	Best	Best	Best
HP Multimedia Enhancements, USB Redirect	No	Yes	No	No	Yes	Yes	No	No	Yes	Yes
VMware										
VMware View	4.6 (no PCoIP support)	4.6 with RDP (no PCoIP)	5.1	5.1	5.1	5.0	5.0	4.6	5.0	5.0
PCoIP relative performance	N/A (rDestop View supp)	N/A	Better	Better	Better	Better	Best	Best	Best	Best
HP Velocity	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hardware specifications										
Processor, memory, monitor, and networking (all HP Desktop Thin Clients support 10/100/1000 Ethernet, widescreen resolutions, and headphone/mic.)										
Processor	Marvell ARM Armada 1.0 GHz	VIA Nano u3500 1.0 GHz	VIA Eden X2 U4200 1.0 GHz Dual Core	VIA Eden X2 U4200 1.0 GHz Dual Core	VIA Eden X2 U4200 1.0 GHz Dual Core	VIA Eden X2 U4200 1.0 GHz Dual Core	AMD Dual-Core T56N APU with Radeon™ HD 6320 Graphics	AMD Dual-Core T56N APU with Radeon™ HD 6320 Graphics	AMD Dual-Core T56N APU with Radeon™ HD 6320 Graphics	AMD Dual-Core T56N APU with Radeon™ HD 6320 Graphics
Standard Flash/RAM[2]	512 MB/1 GB	512 MB/2 GB	1 GB/2 GB	1 GB/2 GB	2 GB/2 GB	4 GB/2-4 GB	1 GB/2 GB	1 GB/2 GB	2 GB/2 GB	4 -16 GB/2-4 GB
Maximum resolution[3]	1920 x 1200	1920 x 1440	1920 x 1200	1920 x 1200	1920 x 1200	1920 x 1200	2560 x 1600	2560 x 1600	2560 x 1600	2560 x 1600
Multi monitor support[4]	1, DVI-I (includes DVI-I to VGA adapter)	1, DVI-I (includes DVI-I to VGA adapter)	2, DVI-I and DVI-D (includes DVI-I to VGA adapter)	2, DVI-I and DVI-D (includes DVI-I to VGA adapter)	2, DVI-I and DVI-D (includes DVI-I to VGA adapter)	2, DVI-I and DVI-D (includes DVI-I to VGA adapter)	2, DVI-I and Display Port (DP) with DVI-I to VGA adapter included	2, DVI-I and Display Port (DP) with DVI-I to VGA adapter included	2, DVI-I and Display Port (DP) with DVI-I to VGA adapter included	2, DVI-I and Display Port (DP) with DVI-I to VGA adapter included
Integrated wireless[5]	No	HP Neoware USB Wireless Adapter optional	802.11a/b/g/n (select models)				802.11a/b/g/n with dual, internal antennas on select models			
I/O and storage expansion										
Serial/Parallel/PS2/USB/Slot-expansion options	0/0/0/4/none		1/1/2/6/none	1/1/2/6/none	1/1/2/6/none	1/1/2/6/none	1/0/2/6/none PLUS: 2/1/2/6 (2x USB 3.0; 4x USB 2.0)/1 HH PCIe x4 card slot	1/0/2/6 (2x USB 3.0; 4x USB 2.0)/none PLUS: 2/1/2/6 (2x USB 3.0; 4 x USB 2.0)/1 HH PCIe x4 card slot (expansion not available with quad-head digital monitor configuration)		1/0/2/6/none PLUS: 2/1/2/6 (2x USB 3.0; 4x USB 2.0)/1 HH PCIe x4 card slot

HP leadership

To help your customers better understand our industry-leading thin client management solutions, visit the HP Partner Portal to arm yourself with more information on HP technologies and other sales documents.

Let HP help you make more money for the time you spend helping your customers get the best desktop devices for almost any virtualisation scenario. Your customers will be delighted – and you will be, too.

HP Partner Portal: https://h20375.www2.hp.com/portal/site/publicsmartportal/WhyRegister.html/

HP Smart Zero Technology

HP Smart Zero Technology gives you a simple, reprogrammable and affordable solution. It supports multiple protocols and can be reprogrammed on the fly, delivering a no-compromise, intelligent zero client experience for remote and cloud computing environments. With HP Smart Zero Technology installed on your thin client or smart zero clients, it allows end users to be up and running in seconds, with no configuration or management required on the device side. Just set up your server, boot the client and connect.

HP Smart Zero Technology combines the benefits of a zero client with HP auto-sensing technology that automatically connects to the network and searches for the right Citrix, VMware or Microsoft client virtualisation infrastructure and downloads everything it needs to deliver a robust user experience. The user is up and running quickly with no local user interface and just three steps from logon to productivity.

Sell to vertical markets

HP Thin Clients for education allow customers to:

- Upgrade to an affordable, built-to-last, energy-efficient system using existing IT assets.
- Reduce cable requirements within teaching environments.
- Port over current educational applications and swap units without specialised support, allowing teachers to focus on teaching, not troubleshooting.
- Increase student engagement and time on task with sound 1:1 computing solutions.

HP Thin Clients for Finance allow customers to:

- Provide data centres with enhanced security features for data storage, backups and archiving.
- Handle custom and media-rich applications.
- Enhance productivity with multi-monitor capability and optimised, energy-efficient performance.
- Expand global support for global operations, and use stateless clients for current call centres.

HP Thin Clients for Healthcare allow customers to:

- Work effectively in a limited space with a small footprint, whether at reception desk, nurse station, or bedside.
- Mount client from any location and release quickly for easy portability.
- Stay connected while “on the go” with wireless access, touchscreens, custom interfaces, and mobile options.
- Provide data centres with enhanced security features for record retention, backups and archiving.
- Centralise medical information on a single secure server rather than multiple desktop computers.
- Protect sensitive patient information through multi-layer security.
- Combine information security with complete mobility for applications on wheels.
- View and access more information with dual monitor support ... right out of the box.

Clever, powerful, simple and secure

The New HP Flexible Series Thin Clients offer ultimate performance with extreme expandability and security. WIth an easy set-up, HP Flexible Thin Clients provide a PC-like multimedia experience.

The HP t510 Thin Client helps your business create smart, simplified client virtualisation desktops with powerful, PC-like deployment. This impressive multimedia solution delivers a more robust, dependable thin client experience. The HP t510 comes with Microsoft® Windows® Embedded Standard 7 and Microsoft Embedded Standard 2009 operating systems with support for RDP 7.1 and Microsoft RemoteFX, combined with today’s familiar software, the latest protocol support, firewall protection and full-featured browser.

The HP t610 offers industry-first hard identification security. Responsibly designed, the energy-efficient t610 uses under 15 watts of power at idle and just half a watt in sleep mode, and is built with post-consumer recycled plastics, helping the system to earn ENERGY STAR® registration and EPEAT Gold across 37 countries around the world. HP t610 has two chassis form factors for ultimate expansion.

- Support for dual- and quad-monitor digital displays and hardware-accelerated multimedia
- Choice of Microsoft Windows Embedded Standard 7 or Microsoft Windows Embedded Standard 2009 or ThinPro operating system, or HP Smart Zero Technology, model dependent
- HP Easy Tools wizard-based utilities allow connection to remote applications and desktops with ease, including Microsoft RFX, Citrix HDX, VMware PCoIP, and Terminal Emulation

The HP t610 is ideal for entities with the following requirements:

- Fastest zero client currently available
- No local user interface to introduce confusion
- The simplicity of a zero client with the flexibility to use different back-end environments
- Dual-digital display support, or single display up to 2560x1600
- Flawless multimedia experience
- Protecting highly sensitive data or ensuring regulatory compliance mandates such as HIPAA and Sarbanes Oxley
- Deploying and managing PCs with limited IT staff
- Reducing downtime and total costs associated with PCs
- Invested in server virtualisation and interested in moving to desktop virtualisation

Why HP Thin Clients

Customer focused

With an ever-changing market and customer demands, HP has created a new, simpler portfolio structure, including zero, smart zero, and flexible thin clients. From IT administrators to knowledge workers and multi-taskers, there is a thin client for everyone. HP provides zero clients ideal for PC-sharing and single performance protocols, smart zero clients for simple client virtualisation needs, and the flexible series with ultimate PC-like performance and extreme expandability and security. All platforms are easy to deploy and manage.

Ultimate computing control

HP makes it simple to manage and protect your computing infrastructure with the most comprehensive security and manageability features, tailored to each environment.

Real solutions for real industries

- HP Easy Tools provides a consistent management experience across platforms, regardless of model or operating system.
- HP Device Manager reduces complexity with simple scalability, task automation, and a flexible architecture that adapts to three major protocols: Citrix, Microsoft and VMware environments. Find more information at www.hp.com/go/hpdm
- Thin clients are the ideal solution for today’s healthcare, industrial, retail, financial and education industries, if the operation is facing issues such as:
  - Desktop replacement costs
  - Network security
  - Data access to mobile or remote workers
  - Supporting application software on diverse hardware
  - Ensuring data is accessible and secure

Environmental commitment

HP delivers energy-efficient products, solutions and services. Whenever possible, HP is committed to using environmentally sound materials in products and packaging, as well as responsible and convenient reuse and recycling services.

- HP t610 and t510 are manufactured from up to 20% post-consumer recycled plastics by total weight of plastics.
- HP Zero, Smart Zero, Flexible and Mobile Series Thin Clients are designed to be ENERGY STAR qualified and EPEAT registered[6] (see QuickSpecs for detailed information by model).
- Thin clients offer up to 80% power savings[7] over traditional desktop PCs with similar capabilities.
- With no hard drives or fans, thin clients generate less heat and have lower failure rates and longer lifecycles compared to equivalent PCs.
- Thin clients meet Restriction of Hazardous Substances (RoHS) compliance.
- No ozone-depleting substances are used in packaging material.
- All HP Thin Clients are at least 90% recyclable by weight.
- All HP Thin Client packaging is 100% recyclable. With HP’s Advanced Unit Exchange program, failed thin clients are shipped back to HP for refurbishing or recycling.
- HP’s Planet Partners global hardware return and recycling program operates in more than 40 countries, regions and territories.
- With no fans, HP Thin Clients do their part to prevent the spread of airborne infectious diseases in healthcare and other settings.

Footnotes

1. Explorer for Windows CE is different from full PC version and should be tested for functional compatibility in the customer environment.
2. 64 MB or more memory reserved for video.
3. The resolutions your monitor displays and the multi-display modes (i.e. clone, spanning, extended/independent) supported in ICA, RDP or locally may vary.
4. Number of monitors supported varies by model.
5. Wireless access point and Internet service required and not included.
6. EPEAT where HP registers commercial display products. See www.epeat.net for country registration status
7. Based on calculated power consumption comparisons of HP t5235 plus HP Proliant servers for 1,000 users at 190 light-duty users per server compared to a conventional PC as defined by ENERGY STAR’s Carbon Calculator.

Learn more about HP Thin Clients at www.hp.com/go/thin

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